



Hawai'i Energy

RESIDENTIAL Photovoltaic Water Heating SYSTEM SIZING VERIFICATION (Form 1)

Participating Contractor to complete all non-shaded areas. All shaded areas are for Official Use only. For questions, call (808) 537-5577.

IMPORTANT: PV system must not be tied to the grid or a grid-tied battery system at any point during the life of the system. Further, the system must not have the capability or option to be connected to the grid at any time. PV collectors must be dedicated to solely power heating for the proposed system.

Step 1. CUSTOMER & CONTRACTOR INFORMATION

Customer Name:	WORK ORDER#:
Contractor Name:	Collector Access: ☐ One story ☐ Two story ☐ Other
Phone:	Tank Access: ☐ Locked ☐ Unlocked
Contact:	Install location: ☐ O'ahu ☐ Molokai ☐ Lānai ☐ Maui ☐ Hawai'i
Subcontractor(s) Used: ☐ Yes ☐ No If Yes, Name & License #:	

Step 2. SYSTEM DATA

	Accepted	Denied
Installation Reason: ☐ Burnout ☐ Retrofit		
Previous Water Heater Type: ☐ Electric ☐ Heat Pump ☐ Solar ☐ None		
System Type: ☐ Active ☐ Passive		
Number of residents/occupants: _____		
Sunshine Zone: ☐ 350 ☐ 400 ☐ 450 ☐ 500 ☐ 550		
Collector Manufacturer & Model No.		
Number of Collectors		
Collector Rated Watts output		
Collector Orientation: _____ degrees (true)		
Collector Mounting Method: ☐ Flush ☐ Side Tilt ☐ End Tilt		
Collector Tilt: _____ degrees		
Collector Tilt Factor: _____ % derating (Table 3: Tilt Factor Table)		
Actual Hot Water Storage: _____ gallons		
Back-Up Heating type: ☐ Electric ☐ Gas ☐ Heat Pump		

Using the appropriate table below, check the number of residents and corresponding sunshine zone.
Use these to determine the corresponding number of PV collectors that qualifies for Program rebate.

Sunbandit – PV Collectors allowed for this system

Tank size	# Residents	550	500	480	450	400	350	300
80	1	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐
80	2	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐
80	3	4 ☐	4 ☐	6 ☐	6 ☐	6 ☐	6 ☐	6 ☐
120	4	6 ☐	6 ☐	6 ☐	6 ☐	8 ☐	8 ☐	8 ☐
120	5	6 ☐	8 ☐	8 ☐	8 ☐	8 ☐		
120	6	8 ☐	8 ☐	8 ☐				
								N/A ☐

SunEarth – PV Collectors allowed for this system

Tank size	# Residents	550	500	480	450	400	350	300
50	1	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐
50	2	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐
50	3	4 ☐	4 ☐	4 ☐	4 ☐			
								N/A ☐

Apparent – PV Collectors allowed for this system

Tank size	# Residents	550	500	480	450	400	350	300
65	1	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐
65	2	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐
65	3	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐
65	4	4 ☐	4 ☐	4 ☐	4 ☐	4 ☐	6 ☐	6 ☐
105	5	6 ☐	6 ☐	6 ☐	6 ☐	6 ☐	8 ☐	8 ☐
105	6	8 ☐	8 ☐	8 ☐	8 ☐	8 ☐	8 ☐	8 ☐
								N/A ☐